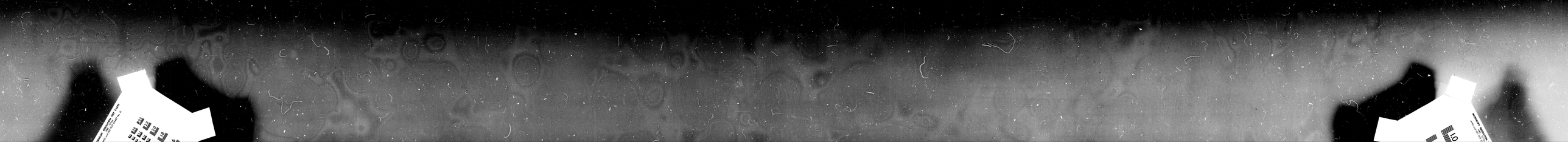


I 49.89:82-47.1/map C 6

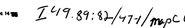
MMS 85-0011
FWS/OBS-82/47.1

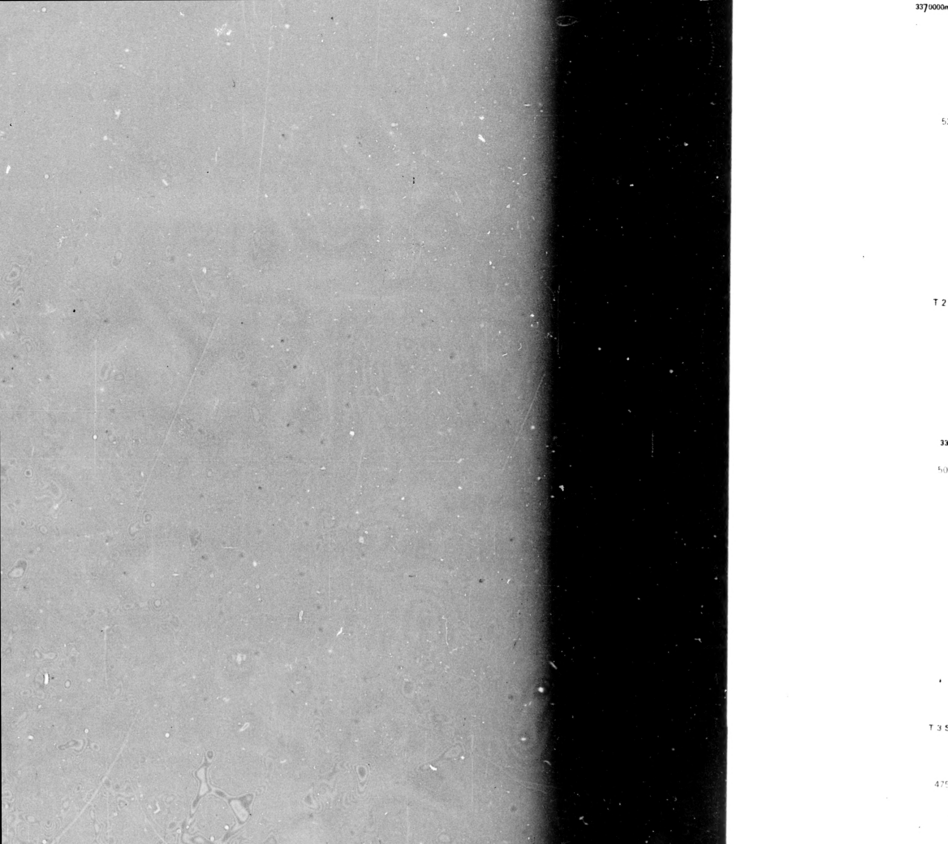
MAP C6

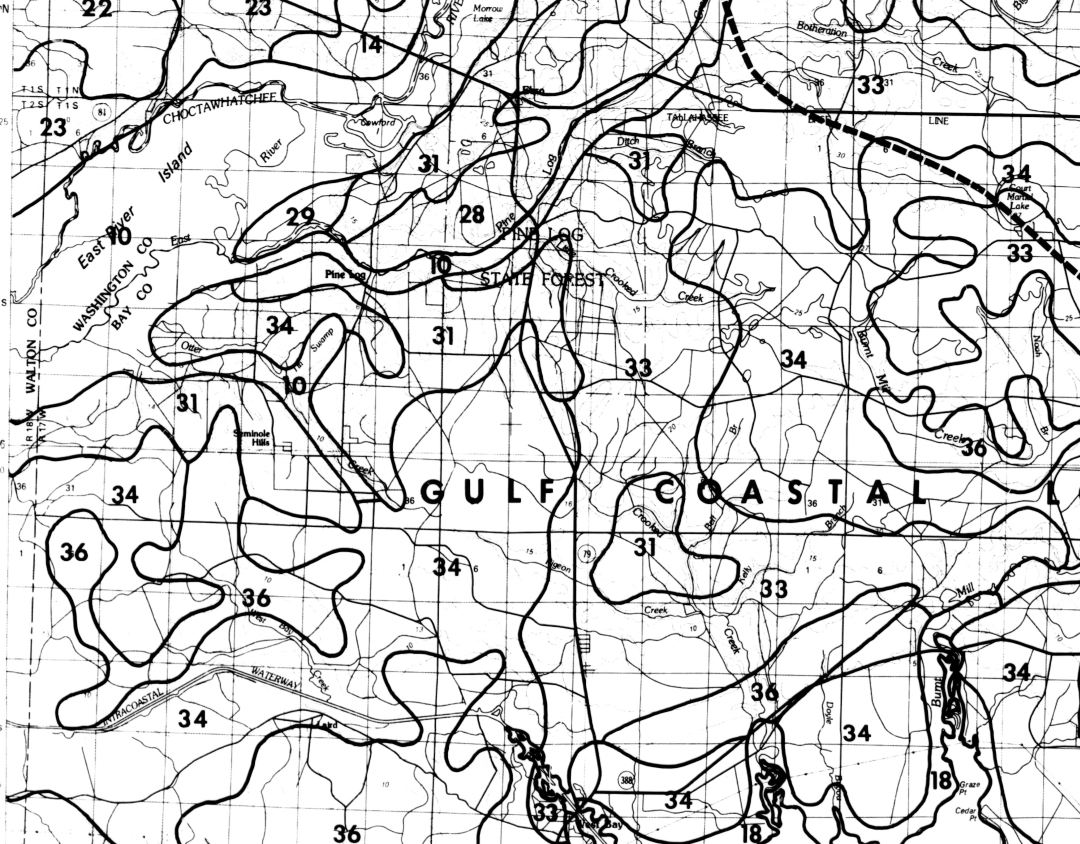
Panama City

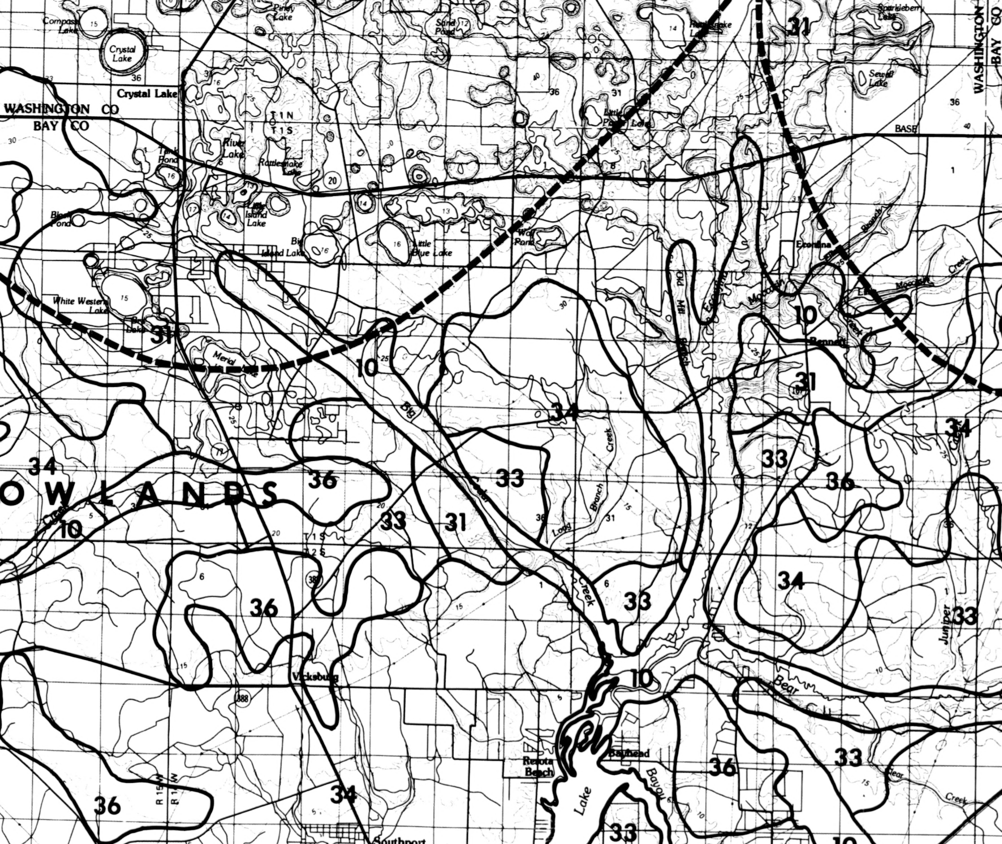
FLORIDA ECOLOGICAL ATLAS

SOILS AND LANDFORMS




3370000m
52
T 2
33
50
T 3 S
475


22
23
14
Morrow Lake
Botheration Creek
33
T 1 S
T 1 N
T 2 S
T 1 S
81
23
CHOCTAWHATCHEE
River
Island
Cowford
31
Elmo
TALLAHASSEE
BASE
LINE
Ditch
31
Branch
34
Court Martial Lake
Pine Log
29
28
PINE LOG
STATE FOREST
East River
10
East
WASHINGTON CO
BAY CO
Pine Log
10
Crooked
Creek
33
34
31
Otter
Swamp
33
34
Burnt Mill
Noah
WALTON CO
R 18 W
R 17 W
31
10
Seminole Hills
Creek
Creek
36
Br
GULF COASTAL L
34
36
Crooked
Bell
Branch
31
36
34
79
Pigeon
Kelly
33
Creek
Creek
36
Mill
West Bay
Creek
INTRACOASTAL WATERWAY
34
36
Doyle
Burnt
34
Laird
388
34
33
West Bay
18
18
Graze Pt
Cedar Pt
Bayou
36


Compass Lake
Crystal Lake
Piney Lake
Sand Pond
Rattlesnake Lake
Sparkleberry Lake
Sewell Lake
WASHINGTON CO
BAY CO
Crystal Lake
WASHINGTON CO
BAY CO
T 1 N
T 1 S
Little Pate Lake
River Lake
Rattlesnake Lake
BASE
Tank Pond
Black Pond
Little Island Lake
Big Island Lake
Little Blue Lake
Wolf Pond
White Western Lake
Bay Lake
Merial Lake
Econfina
Old Mill Branch
Econfina
Moccasin
Little Moccasin Creek
Bennett
Big
Cedar
Long Branch
Creek
Creek
OWLANDS
T 1 S
T 2 S
Vicksburg
Bear
Juniper Creek
Bayhead
Resota Beach
Lake
Bayou
Clear Creek
R 15 W
R 14 W
Southport
20
388
388
10
31
10
34
36
33
34
33
31
33
34
33
36
10
31
10
36
34
33
36
33
33
34
36
10
31
36
1
15
36
16
17
14
13
16
16
15
14
12
14
40
36
31
25
30
25
6
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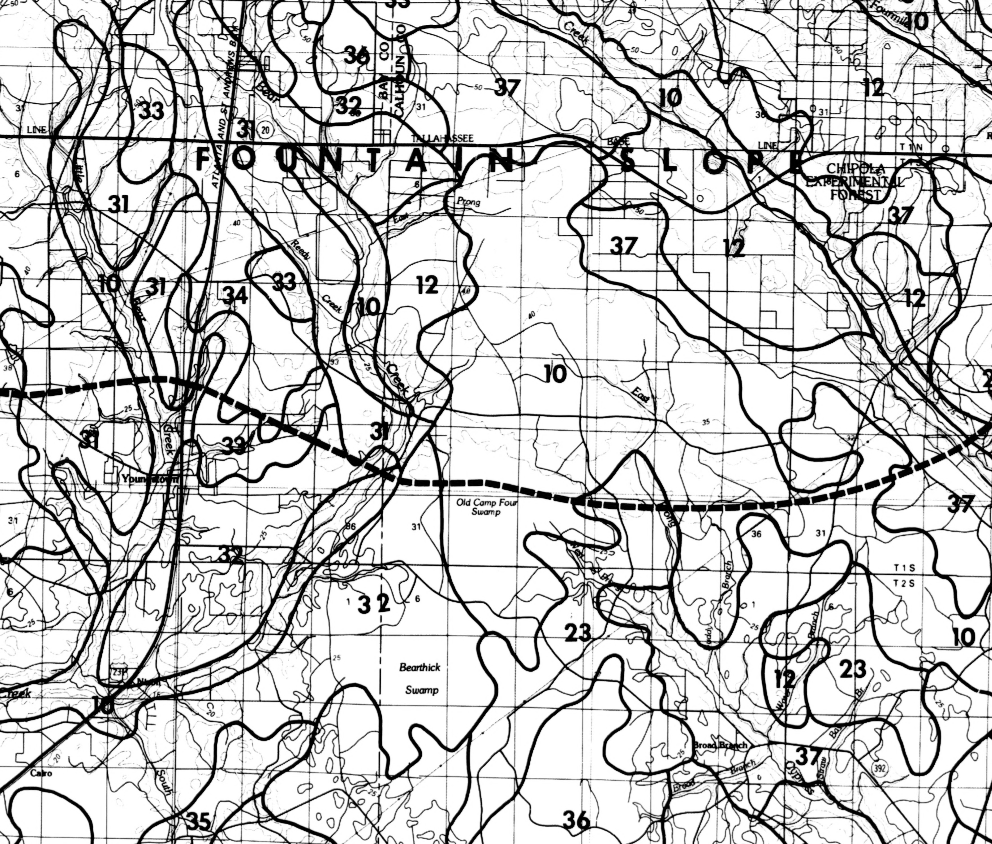
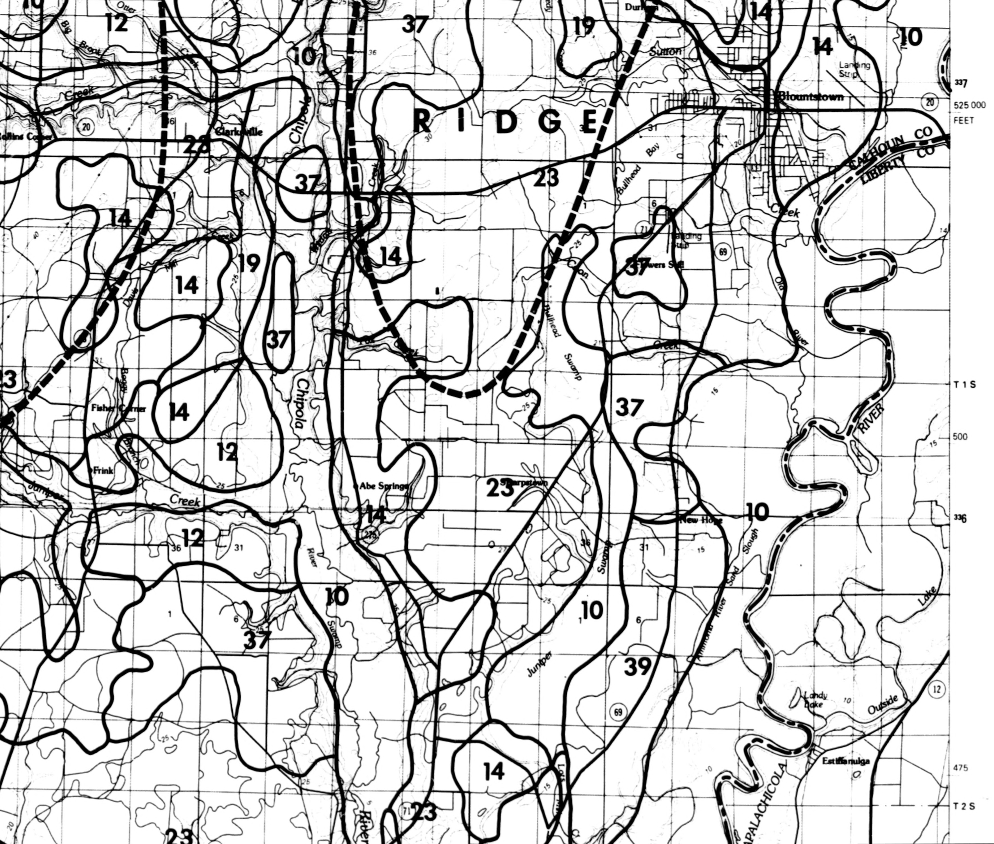
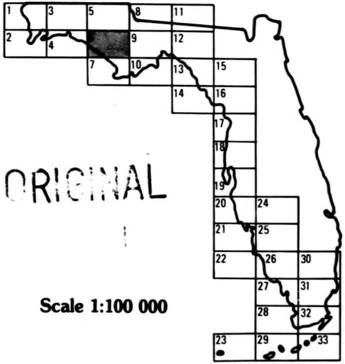
5
10
15
10
5
30


FOUNTAIN SLOPE
CHIPOLA EXPERIMENTAL FOREST
TALLAHASSEE
BASE
LINE
T 1 N
T 1 S
T 2 S
ATLANTA AND ST ANDREWS BAY
BAY CO
CALHOUN CO
Youngstown
Old Camp Four Swamp
Bearthick Swamp
Broad Branch
Cairo
Nixon
Prong
East
Reedy Creek
Bear Creek
Fourmile
Creek
Branch
Cypress
392
231
20
36
32
37
33
31
10
12
34
23
35
6


RIDGE
Blountstown
Clarksville
Rollins Corner
Fisher Corner
Frink
Abe Springs
Sharpstown
New Hope
Powers Still
Landing Strip
Durham
Sutton
Estiffanulga
Landy Lake
CALHOUN CO
LIBERTY CO
APALACHICOLA
RIVER
Chipola
Chipola River
Juniper Creek
Big Brant Creek
Otter Creek
Bullhead Bay
Bullhead Swamp
Coon
Old River
Sand Slough
Outside Lake
Juniper
Swamp
Beggy
Mill Creek
Lost Creek
525 000 FEET
500
475
337
336
T 1 S
T 2 S
20
69
71
275
12
10
12
14
19
23
28
37
39


1
2
3
4
5
7
8
9
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11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33

ORIGINAL

Scale 1:100 000

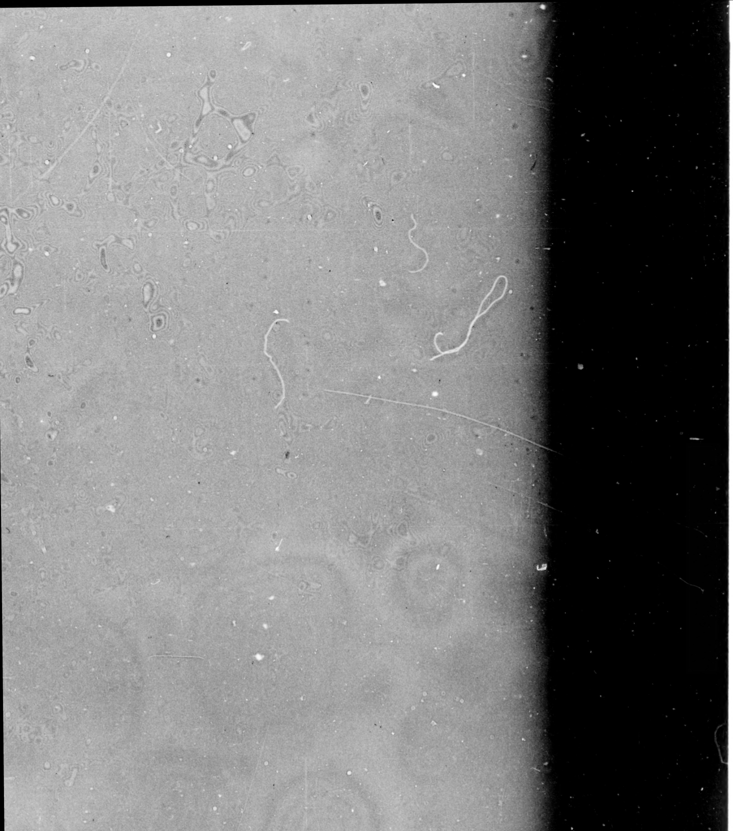
TOPICAL MAPS IN THIS ATLAS:

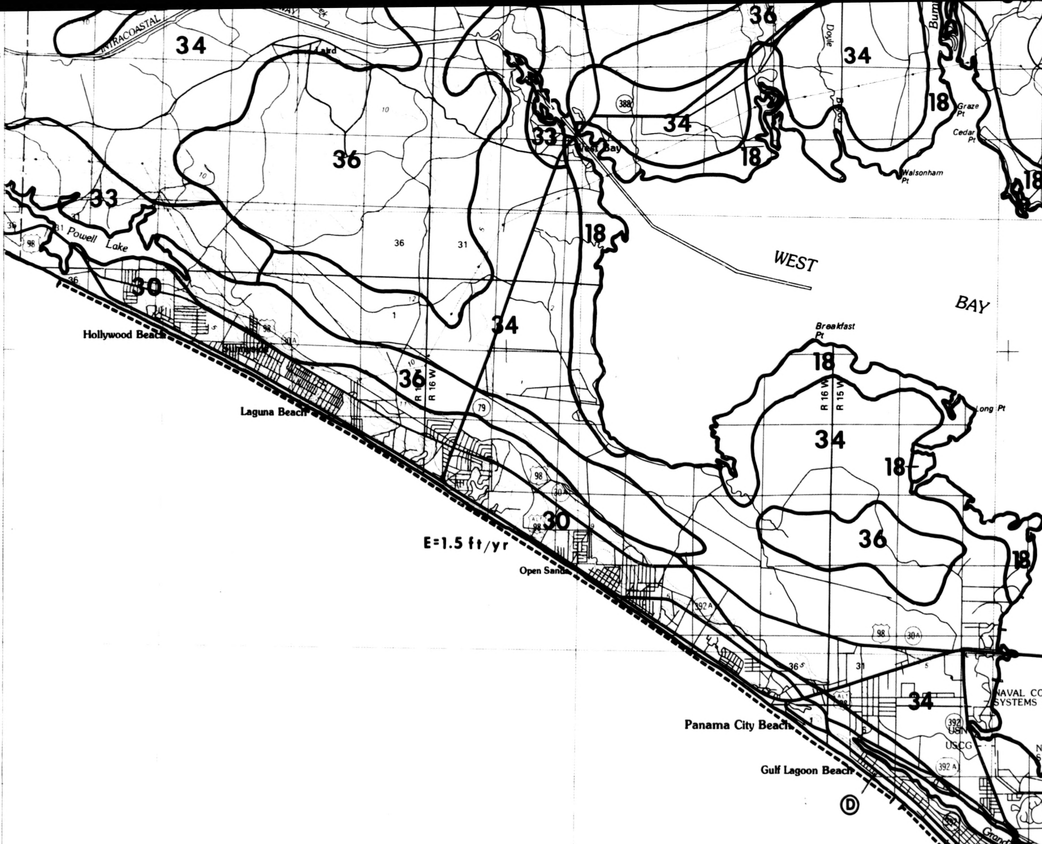
A. BIOLOGICAL RESOURCES
B. SOCIOECONOMIC FEATURES
C. SOILS AND LANDFORMS
D. OIL, GAS AND MINERALS
E. HYDROLOGY AND CLIMATOLOGY

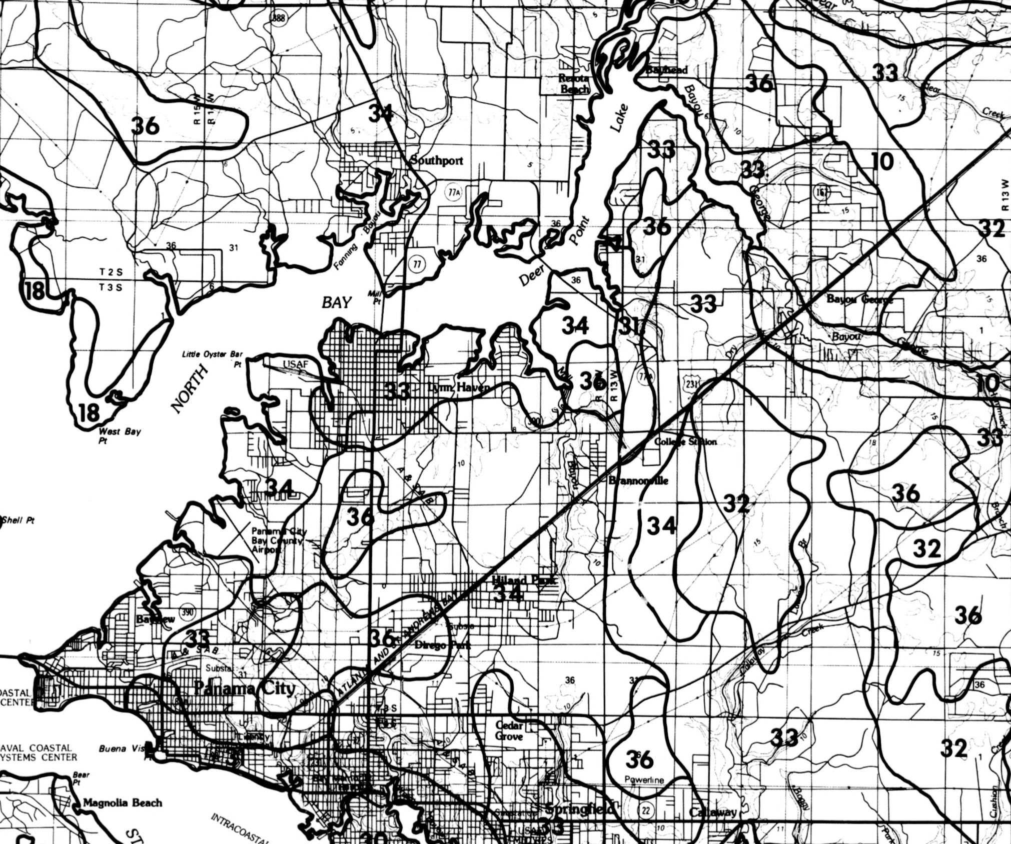
1984

Produced by U.S. Fish and Wildlife
Service and Minerals Management Service

Projection and 10,000 meter grid, zone 17: Universal Transverse Mercator


T 3 S
475
335
15'
450
334
425


INTRACOASTAL
34
36
33
18
30
Laird
Doyle
388
West Bay
Graze Pt
Cedar Pt
Walsonham Pt
Powell Lake
98
30A
Hollywood Beach
Sunnyside
Laguna Beach
R 16 W
R 15 W
79
WEST
BAY
Breakfast Pt
Long Pt
E=1.5 ft/yr
Open Sands
392A
ALT 98
Panama City Beach
Gulf Lagoon Beach
NAVAL CO
SYSTEMS
392
USN
USCG
Ⓓ


36
34
33
36
33
10
32
18
18
Southport
Fanning Bayou
Mill Pt
BAY
NORTH
Little Oyster Bar Pt
West Bay Pt
USAF
Lynn Haven
Deer Point Lake
Bayhead
Bayou George
Reeota Beach
Bear Creek
T 2 S
T 3 S
R 15 W
R 14 W
R 13 W
College Station
Brannonville
Panama City Bay County Airport
Hiland Park
Bayview
Panama City
Shell Pt
Cedar Grove
Springfield
Callaway
Powerline
Magnolia Beach
Bear Pt
Buena Vista Pt
NAVAL COASTAL SYSTEMS CENTER
INTRACOASTAL
Parker
Direga Park
ATLANTA AND ST ANDREWS BAY
Dry Branch
Cushion Creek
Bayou George
34
36
31
33
36
32
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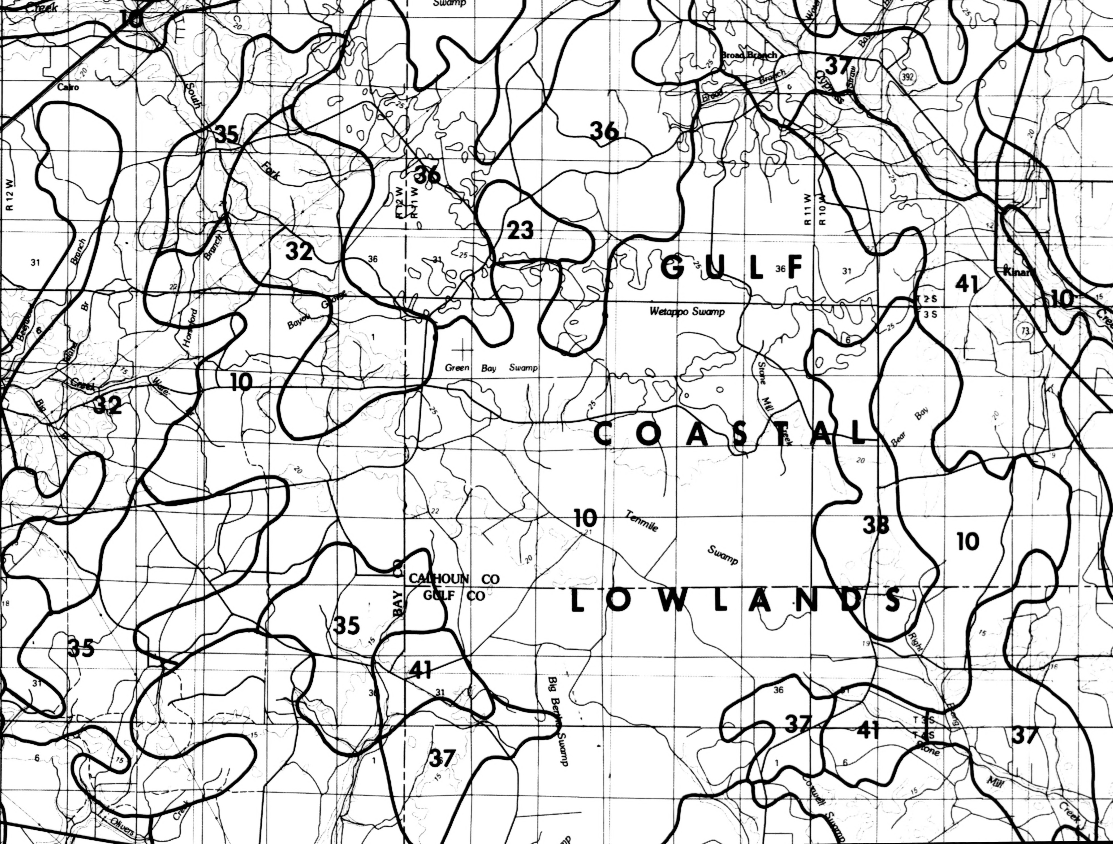
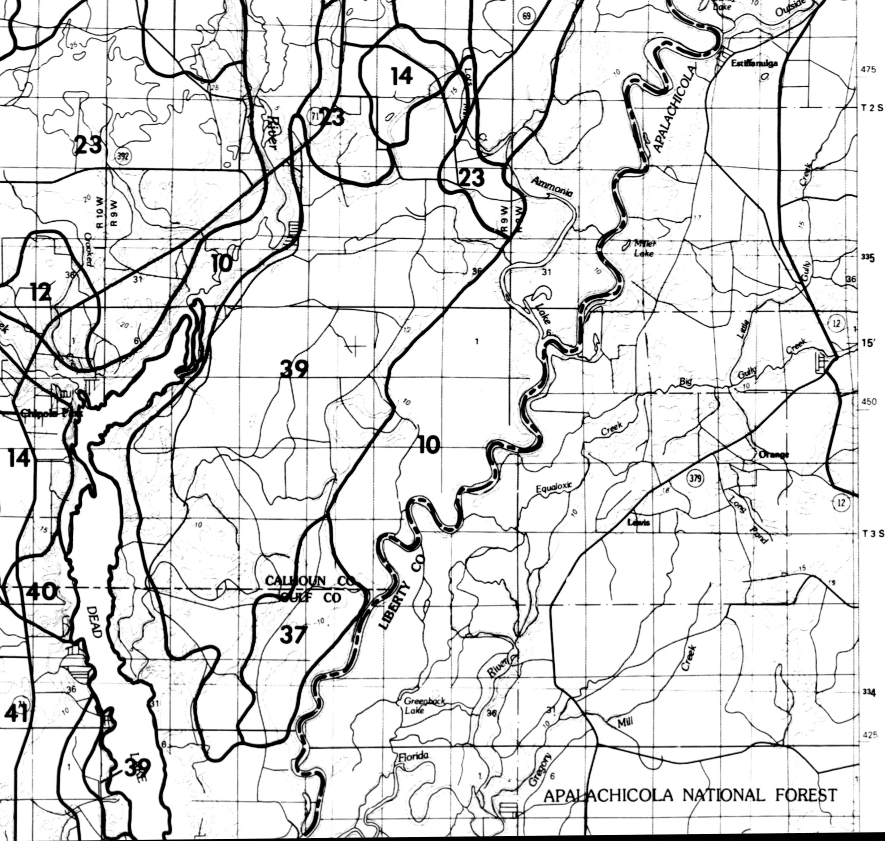
32
34
36
33
33


Creek
10
Swamp
Cairo
South Fork
35
36
R 12 W
R 11 W
R 10 W
23
32
Branch
Horsford Branch
Big Creek
Ware
32
10
Bayou George
Green Bay Swamp
Broad Branch
37
Cypress
Straw
392
36
GULF
COASTAL
LOWLANDS
Wetappo Swamp
Stone Mill Creek
41
Kinard
10
73
T 2 S
T 3 S
Bear Bay
38
10
10
Tenmile Swamp
CALHOUN CO
GULF CO
BAY CO
35
35
41
37
Big Bear Swamp
Right Prong
37
41
37
T 3 S
T 4 S
Stone Mill Creek
Cotwell Swamp
Olivers Creek



Lake
Outside
69
Estiffanulga
475
14
T 2 S
23
71
23
River
392
APALACHICOLA
23
Ammonia
R 10 W
R 9 W
R 9 W
R 8 W
Crooked
Miller Lake
10
335
36
31
36
31
36
Creek
Gully
12
Lake
12
1
15′
Little
Creek
39
Big
Gully
450
Chipola Park
10
14
Creek
Orange
Equaloxic
379
12
Long
Pond
Lewis
T 3 S
40
CALHOUN CO
GULF CO
DEAD
LIBERTY CO
37
Creek
River
334
Greenback Lake
36
41
36
31
Mill
425
39
Florida
Gregory
APALACHICOLA NATIONAL FOREST

Produced by U.S. Fish and Wildlife
Service and Minerals Management Service

Projection and 10,000 meter grid, zone 17: Universal Transverse Mercator
25,000-foot grid ticks based on Florida coordinate system, west zone

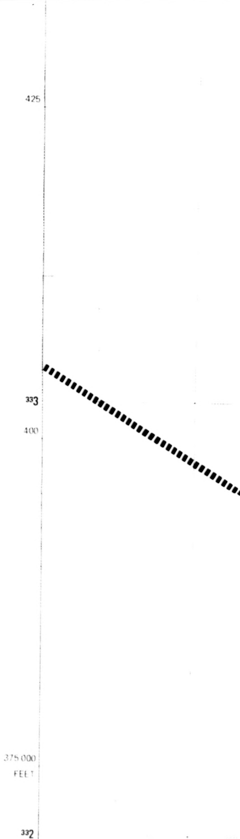
Overlay material compiled in 1983 from latest available data obtained from Federal, State and Local government agencies and other sources.

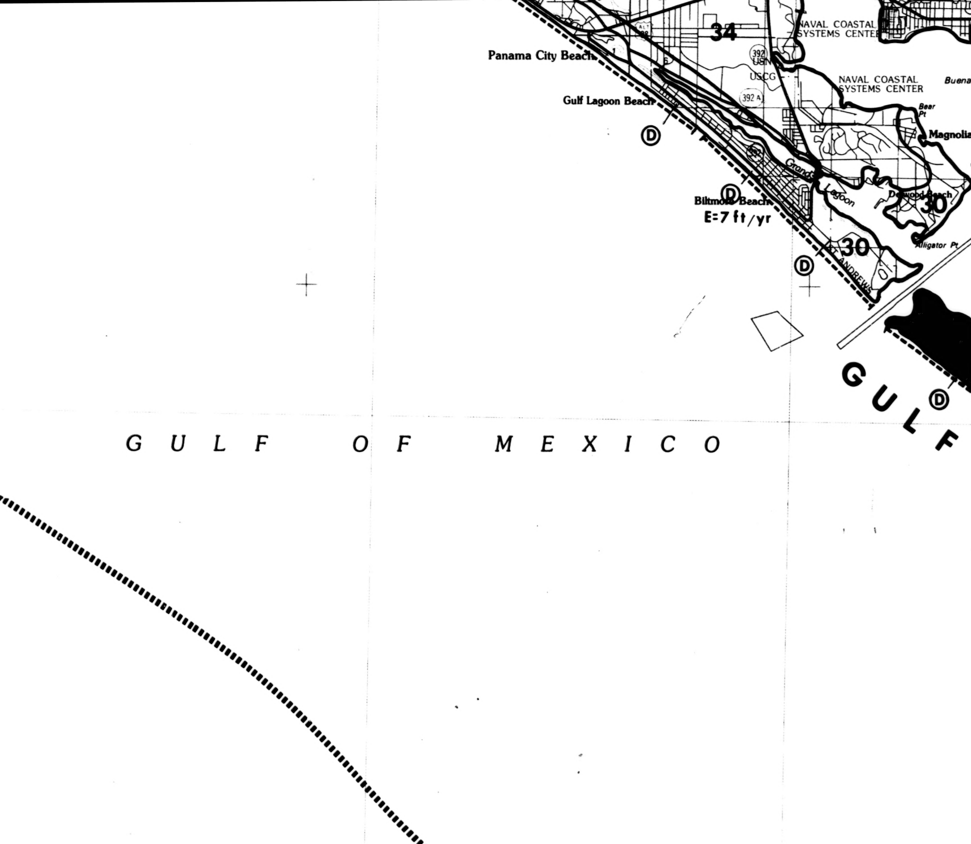
MAJOR SURFACE LANDFORMS

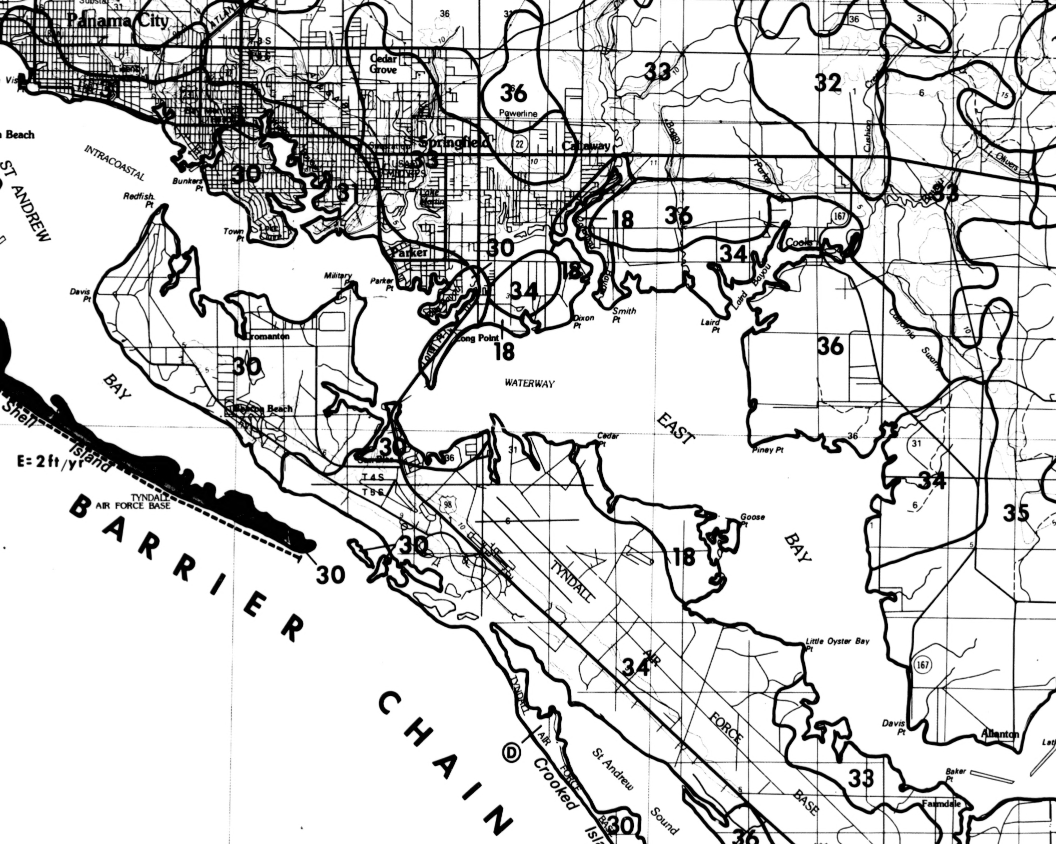
- Western Highlands
- Escambia Valley
- Gulf Coastal Lowlands
- Gulf Barrier Chain
- Marianna Lowlands
- New Hope Ridge
- Greenhead Slope
- Fountain Slope
- Grand Ridge
- Northern Highlands
- Coastal Swamps
- Brooksville Ridge
- Western Valley

SOIL ASSOCIATIONS

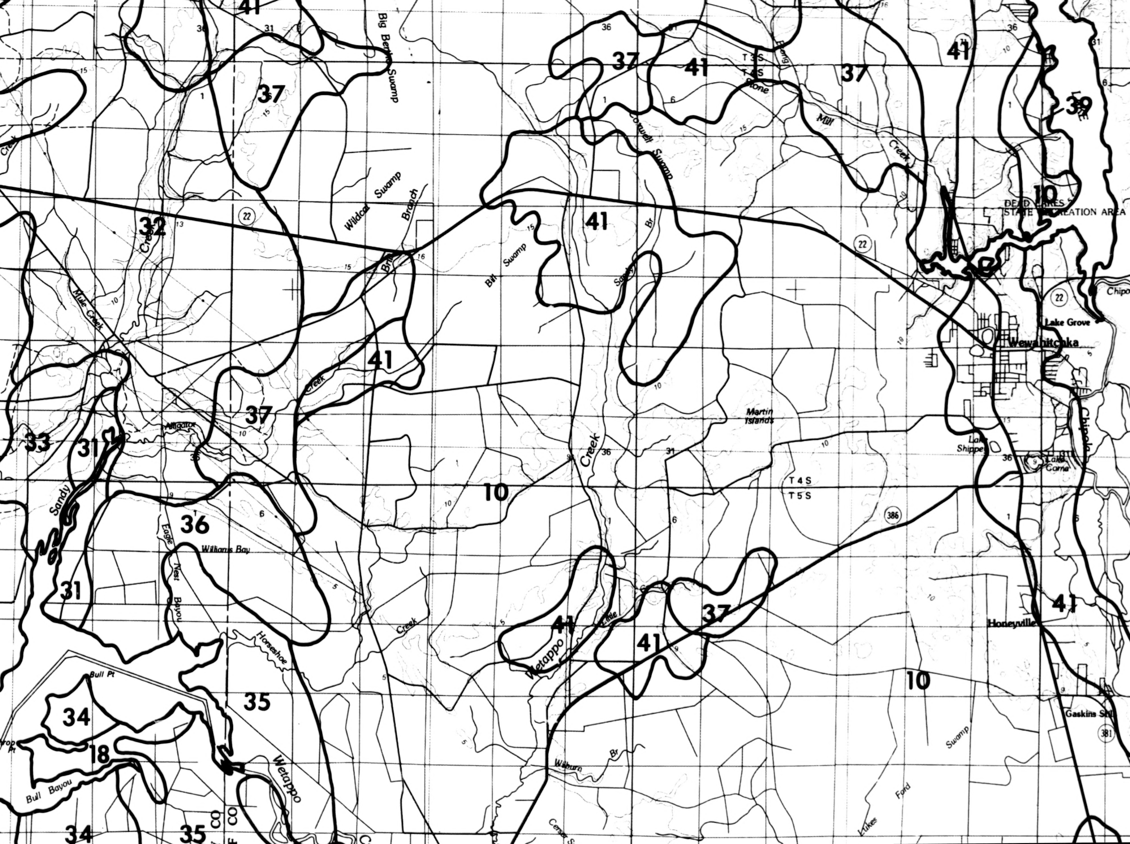
1. Lakeland-Eustis-Lakewood Association
2. Lakeland, Ruston, and Norfolk-Sunsweet, Carnegie and Cuthbert Association
3. Red Bay-Blakely Association
4. Tifton-Carnegie-Faceville Association
5. Norfolk-Ruston-Savannah Association
6. Tifton-Irvington-Lynchburg Association
7. Klej-Leon Association
8. Huckabee-Kalmia-Izagota Association
9. Coastal Dune Land and Beach-Tidal Marsh Association
10. Plummer-Rutlege-Alluvial Land-Fresh Water Swamp-Dorovan-Pamlico Association
11. Lakeland-Paola-Kureb-St. Lucie-Rimini Association
12. Lakeland-Troup Association
13. Troup-Orangeburg Association
14. Dothan-Orangeburg Association
15. Red Bay-Lucy Association

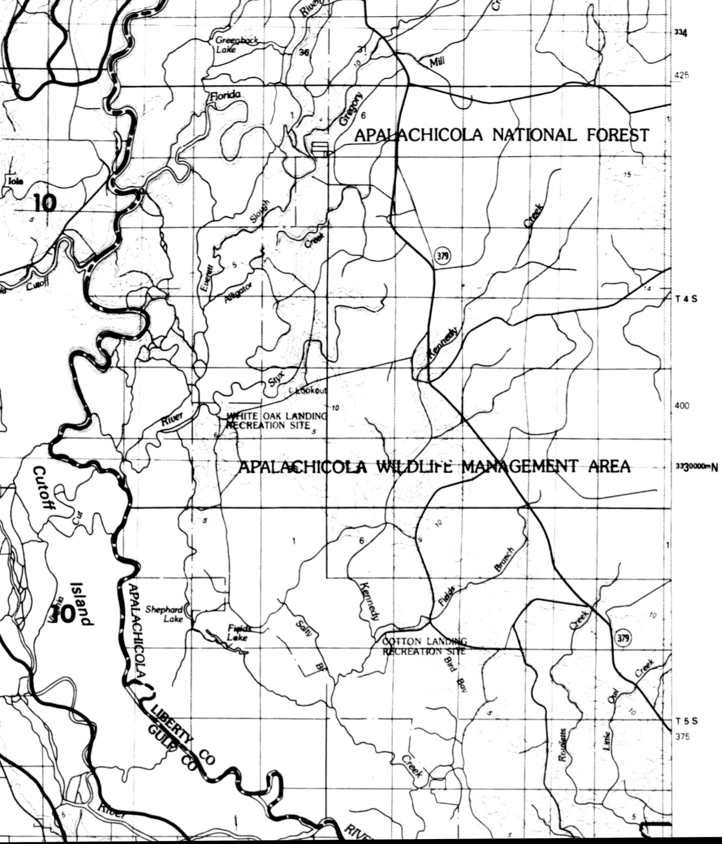

425
$^{33}3$
400
375 000
FEET
$^{33}2$


NAVAL COASTAL SYSTEMS CENTER
34
ALT 98
Panama City Beach
392
USN
USCG
NAVAL COASTAL SYSTEMS CENTER
Buena
392 A
Gulf Lagoon Beach
Bear Pt
Magnolia
D
392
Grand
Lagoon
Dewood Beach
30
D
Biltmore Beach
E=7 ft/yr
Alligator Pt
30
D
ST ANDREWS
GULF
D
GULF OF MEXICO



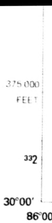
Panama City
Cedar Grove
Springfield
Callaway
Powerline
22
Parker
Long Point
Bunkers Pt
Redfish Pt
Town Pt
Lake Caroline
Lake Martin
Military Pt
Parker Pt
Dixon Pt
Smith Pt
Laird Pt
Laird Bayou
Cooks
167
Davis Pt
Cromanton
Beacon Beach
INTRACOASTAL
WATERWAY
ST ANDREW
BAY
EAST
BAY
Cedar Pt
Piney Pt
Goose Pt
Little Oyster Bay Pt
Davis Pt
Allanton
Baker Pt
Farmdale
Shell Island
E=2ft/yr
TYNDALL AIR FORCE BASE
BARRIER CHAIN
D
Crooked Island
St Andrew Sound
TYNDALL AIR FORCE BASE
T 4 S
T 5 S
98
Cushion Cr
California Swamp
Olivers
Boggy
Parker
30
31
32
33
34
35
36
18


41
37
41
37
41
39
Big Bend Swamp
T 3 S
T 4 S
Stone
Mill Creek
Cotwell Swamp
Dead Lakes State Recreation Area
10
22
Wildcat Swamp Branch
32
Creek
Bit Swamp
Sandy Br
Mule Creek
41
Creek
37
Alligator
33
31
Martin Islands
Wewahitchka
Lake Grove
Chipola
Lake Shipper
Lake Coma
10
T 4 S
T 5 S
386
36
Eagle Nest Bayou
Williams Bay
Sandy
31
Horseshoe
Creek
41
Wetappo
Little Creek
37
41
10
41
Honeyville
Gaskins Sta
381
35
34
Bull Pt
18
Bull Bayou
Wetappo
34
35
CO
CO
Wilburn Br
Swamp
Lukes Ford

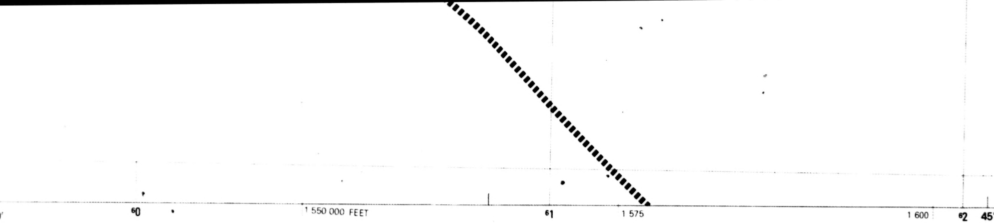

Greenback Lake
36
31
Mill
River
334
425
Florida
Gregory
6
1
APALACHICOLA NATIONAL FOREST
15
Iola
10
5
Slough
Creek
Everett
Alligator
379
Creek
Cutoff
14
T 4 S
Kennedy
Styx
Lookout
400
River
WHITE OAK LANDING RECREATION SITE
APALACHICOLA WILDLIFE MANAGEMENT AREA
3330000mN
Cutoff
Cut
Branch
Fields
Kennedy
Island
Shephard Lake
Fields Lake
APALACHICOLA
Salty Br
COTTON LANDING RECREATION SITE
Bird Bay
Creek
Owl
Little
Roberts
T 5 S
375
LIBERTY CO
GULF CO
River
RIVER

4. Tifton-Carnegie-Faceville Association
5. Norfolk-Ruston-Savannah Association
6. Tifton-Irvington-Lynchburg Association
7. Klej-Leon Association
8. Huckabee-Kalmia-Izagota Association
9. Coastal Dune Land and Beach-Tidal Marsh Association
10. Plummer-Rutlege-Alluvial Land-Fresh Water Swamp-Dorovan-Pamlico Association
11. Lakeland-Paola-Kureb-St. Lucie-Rimini Association
12. Lakeland-Troup Association
13. Troup-Orangeburg Association
14. Dothan-Orangeburg Association
15. Red Bay-Lucy Association
16. Chipley-Scranton Association
17. Johns-Leaf Association
18. Salt Water Marsh-Bayvi-Dirego Association
19. Fuquay-Lucy-Troup Association
20. Dothan-Orangeburg-Tifton Association
21. Lakeland-Faceville Association
22. Chipley-Albany-Leon Association
23. Ardilla-Leefield-Stilson Association
24. Tifton-Faceville-Greenville Association
25. Norfolk-Ruston-Goldsboro Association
26. Tifton-Faceville-Marlboro Association
27. Lakeland-Cuthbert-Shubuta Association
28. Blanton-Klej-Plummer Association
29. Goldsboro-Lynchburg-Rains Association
30. Kureb-Resota-Mandarin Association
31. Lakeland-Foxworth-Centenary Association
32. Leefield-Albany-Stilson Association
33. Hurricane-Chipley-Albany Association
34. Pottsburg-Leon-Rutlege Association
35. Plummer-Pelham Association
36. Rutlege-Allanton-Pickney Association
37. Chipley-Albany-Stilson Association
38. Leon-Albany-Plummer-Chipley-Osier Association
39. Dunbar-Bladen Association
40. Dothan-Stilson-Lucy Association
41. Ardilla-Leefield-Pansey Association
42. Chipley-Albany-Blanton Association
43. Leon-Felda-Matmon Association
44. Dothan-Orangeburg-Red Bay Association
45. Alpin-Blanton-Eustis Association
46. Orangeburg-Lucy-Dothan Association
47. Chipley-Albany-Plummer Association
48. Leon-Mascotte-Rutlege Association
49. Broward, var.-Matmon-Osier Association
50. Manatee, var.-Felda, Var.-Copeland, Var. Association
51. Fresh Water Swamp, Shallow to Limestone Association
52. Salt Water Marsh and Swamp-Coastal Dunes Association
53. Alpin-Blanton Association
54. Chipley-Blanton-Swamp Association
55. Adamsville, var.-Chiefland-Blanton Association
56. Candler-Apopka Association
57. Jonesville-Chiefland-Archer Association
58. Arredondo-Gainesville Association
59. Hernando-Archer-Chiefland Association
60. Sparr-Lochloosa-Tavares Association
61. Adamsville-Osier Association
62. Bushnell-Wabasso-Felda Association
63. Blichton-Flemington-Kanapaha Association

MICROCOPY RESOLUTION TEST CHART
NBS - 1010a
(ANSI and ISO TEST CHART No. 2)
1.0
1.1
1.25
1.4
1.6
1.8
2.0
2.2
2.5
2.8
3.2
3.6
4.0
4.5
5.0
5.6


375 000
FEET
33
2
30°00'
86°00

Se
ex


60
1 550 000 FEET
61
1 575
1 600
62
45'

KILOMETERS

MILES

THE FLORIDA ECOLOGICAL ATLAS WAS PRODUCED BY THE U.S. FISH AND WILDLIFE SERVICE, DIVISION OF BIOLOGICAL SERVICES, NATIONAL COASTAL ECOSYSTEMS TEAM (FWS/OBS - 82/47) AND THE MINERALS MANAGEMENT SERVICE FOR COASTAL PLANNERS, DECISION MAKERS, AND THE GENERAL PUBLIC, TO DETERMINE AND EVALUATE CHANGE AND TO RESOLVE CONFLICTS AMONG LAND USES, FISH AND WILDLIFE REQUIREMENTS, AND THE MAINTENANCE OF ECOLOGICAL DIVERSITY. THE STUDY AREA INCLUDES THE COASTAL COUNTIES: ESCAMBIA, SANTA ROSA, OKALOOSA, WALTON, WASHINGTON, BAY, CALHOUN, GULF, FRANKLIN, WAKULLA, JEFFERSON, TAYLOR, DIXIE, LEVY, CITRUS AND HERNANDO, AND EXTENDS OFFSHORE APPROXIMATELY 10 MILES. THERE IS NO ATTEMPT, IN THE DESIGN OR PRODUCTS OF THIS STUDY, TO DEFINE THE LIMITS OF PROPRIETARY JURISDICTION OF ANY FEDERAL, STATE, OR LOCAL GOVERNMENT TO ESTABLISH THE GEOGRAPHICAL SCOPE OF THE REGULATORY PROGRAMS OF GOVERNMENT AGENCIES.

THIS MAP HAS BEEN COMPILED FROM A VARIETY OF SOURCE MATERIALS INCLUDING MAPS, AERIAL PHOTOS, AND REPORTS. SINCE MANY SOURCES CONTAINED GENERALIZED LOCATIONS OF RESOURCES AND OTHER MAPPED FEATURES, THE USER SHOULD NOT RELY ON THESE MAPS FOR PRECISE MEASUREMENTS OF DISTANCES OR AREAS.

elected areas on this U.S.G.S. base map updated using information
tracted from aerial photography. This information not field checked.

PRIMARY SOURCES OF MAPPED INFORMATION:

LANDFORMS: Physiographic Map of Florida,
State Bureau of Geology, 1980.

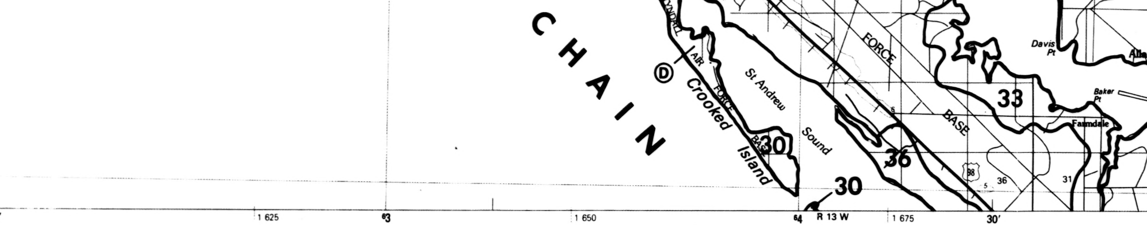
SOILS: General Soils Atlas of Florida,
Division of State Planning, 1975.
General Soils Atlas of Florida, U.S.
Soil Conservation Service, 1982.

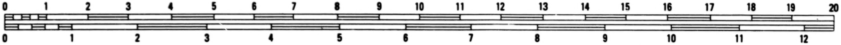
ACTIVE DUNES: Black and White Aerial
Photography, 1:80,000 Scale, Mark Hurd
Aerial Surveys Inc., 1980.
Topographic Maps, 1:24,000 Scale, U.S.
Geological Survey, various dates.

GEOLOGIC FAULTS: Map of Escambia and
Santa Rosa Counties Showing Contours on top
of the Lower Limestone of the Floridan
Aquifer, State Bureau of Geology, 1965.

FOR COMPLETE REFERENCES SEE MAP NARRATIVE

Base map compiled from information on the U.S.G.S. 1:24 000-scale map series which may vary in detail due to different dates of compilation.


CHAIN
TYNDALL
AIR FORCE BASE
Crooked Island
St Andrew Sound
FORCE
BASE
D
30
33
36
30
Davis Pt
Baker Pt
Farmdale
98
5
36
31
1 625
63
1 650
64
R 13 W
1 675
30′


0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
0 1 2 3 4 5 6 7 8 9 10 11 12

SCALE 1:100 000

1 CENTIMETER ON THE MAP REPRESENTS 1 KILOMETER ON TH

CONTOUR INTERVAL 5 METERS

1. **Lakeland-Eustis-Lakewood Association:** Nearly level to gently sloping, excessively drained soils, sandy throughout.

10. **Plummer-Rutlege-Alluvial Land-Fresh Water Swamp-Dorovan-Pamlico Association:** Nearly level, poorly drained soils with a thick surface layer overlying a loamy subsoil and very poorly drained soils that are sandy throughout.

12. **Lakeland-Troup Association:** Nearly level to steep, excessively drained soils, sandy throughout, and well drained soils with very thick sandy layers over loamy subsoil.

14. **Dothan-Orangeburg Association:** Nearly level to sloping well drained, sandy soils with loamy subsoils.

18. **Salt Water Marsh-Bayvi-Dirego Association:** Nearly level, very poorly drained soils subject to frequent flooding by tidal waters.

19. **Fuquay-Lucy-Troup Association:** Nearly level to sloping, well drained soils with sandy layers over loamy subsoil.

22. **Chipley-Albany-Leon Association:** Nearly level to gently sloping, moderately well drained soils, sandy throughout; somewhat poorly drained soils with very thick sandy layers over loamy subsoils, and poorly drained sandy soils with weakly cemented sandy subsoil.

23. **Ardilla-Leefield-Stilson Association:** Nearly level to gently sloping, somewhat poorly drained and moderately well drained sandy soils with loamy subsoil.

28. **Blanton-Klej-Plummer Association:** Nearly level to gently sloping, moderately well drained, and poorly drained soils that are sandy throughout.

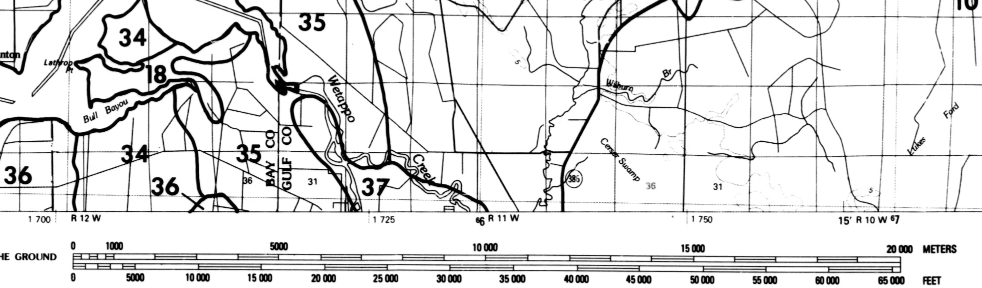
29. **Goldsboro-Lynchburg-Rains Association:** Nearly level to gently sloping, moderately well drained, somewhat poorly drained, and poorly drained sandy soils with loamy subsoil.

30. **Kureb-Resota-Mandarin Association:** Nearly level gently sloping, excessively drained and moderately well drained soils, sandy to depths of 80 inches or more some of which have organic stained sandy layers.

31. **Lakeland-Foxworth-Centenary Association:** Nearly level to sloping, excessively drained and moderately well drained soils sandy to depths of 80 inches or more some of which have organic stained sandy layers.

32. **Leefield-Albany-Stilson Association:** Nearly level to gently sloping, somewhat poorly drained soils and moderately well drained soils, some of which are sandy to a depth of 20 to 40 inches and loamy below, and some of which are sandy to more than 40 inches and loamy below.

33. **Hurricane-Chipley-Albany Association:** Nearly level


34
35
18
36
37
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nton
Lathrop Pt
Bull Bayou
Wetappo Creek
BAY CO
GULF CO
Wilburn Br
Cerser Swamp
Lukes Ford
386
1 700
R 12 W
1 725
66 R 11 W
1 750
15′ R 10 W 67
HE GROUND
0
1000
5000
10 000
15 000
20 000 METERS
0
5000
10 000
15 000
20 000
25 000
30 000
35 000
40 000
45 000
50 000
55 000
60 000
65 000
FEET

to gently sloping, somewhat poorly drained soils, some sandy throughout and some sandy to depths of 40 inches or more and loamy below.

34. **Pottsburg-Leon-Rutlege Association:** Nearly level, poorly drained soils sandy to depths of 80 inches and some with organic stained sandy layers.

35. **Plummer-Pelham Association:** Nearly level, poorly drained sandy soils that have loamy subsoils at depths of 40 inches or more or within depths of 20 to 40 inches.

36. **Rutlege-Allanton-Pickney Association:** Nearly level or depressional very poorly drained soils, sandy to depths of 80 inches or more, and some with organic stained sandy layers.

37. **Chipley-Albany-Stilson Association:** Nearly level, moderately well drained soils that are sandy throughout, poorly drained soils with very thick sandy layers over loamy subsoil, and moderately well drained sandy soils with loamy subsoils.

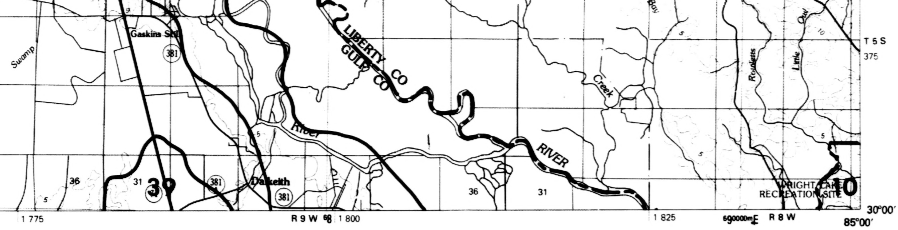
38. **Leon-Albany-Plummer-Chipley-Osier Association:** Nearly level, poorly drained sandy soils with weakly cemented sandy subsoil, and poorly drained soils with very thick sandy layers over loamy subsoil.

39. **Dunbar-Bladen Association:** Nearly level, poorly drained loamy soils with clayey subsoils.

40. **Dothan-Stilson-Lucy Association:** Nearly level and gently sloping, well and moderately well drained sandy soils with loamy subsoils.

41. **Ardilla-Leefield-Pansey Association:** Nearly level, somewhat poorly and poorly drained sandy soils with weakly cemented sandy subsoil and very thick sandy layers over loamy subsoil.

E=__ft/yr ⊢‐‐‐‐‐‐⊣	BEACH EROSION AREA (Period of Record: Univ. of West Florida, 1981)
A=__ft/yr ⊢——⊣	BEACH ACCRETION AREA (Period of Recor Univ. of West Florida, 1981)
■	GULF BARRIER ISLAND
Ⓓ	ACTIVE DUNE AREA


Swamp
Gaskins Still
381
LIBERTY CO
GULF CO
River
RIVER
Creek
Bay
Roddetts
Little
Owl
T 5 S
375
36
31
39
381
Dalkeith
381
36
31
WRIGHT LAKE
RECREATION SITE
40
1 775
R 9 W
68
1 800
1 825
690000mE
R 8 W
30°00′
85°00′

1957-1981;

rd: 1957-1981;

U
D

NORMAL FAULT
(Showing relative vertical movement, U, up, and D, down)

U
D

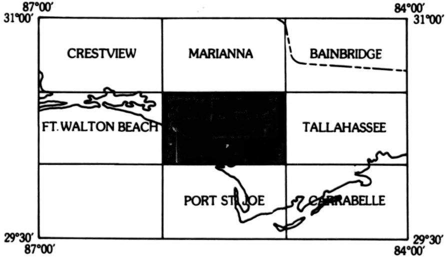
SUB-SURFACE NORMAL FAULT
(Showing relative vertical movement, U, up, and D, down)

STUDY AREA BOUNDARY

▪▪▪▪▪▪▪▪▪▪▪▪▪ **Offshore**

— - — - **Inland (County)**

— - - — **Inland (State)**


87°00′
31°00′
84°00′
31°00′
CRESTVIEW
MARIANNA
BAINBRIDGE
FT. WALTON BEACH
TALLAHASSEE
PORT ST. JOE
CARRABELLE
29°30′
87°00′
29°30′
84°00′

53.
54.
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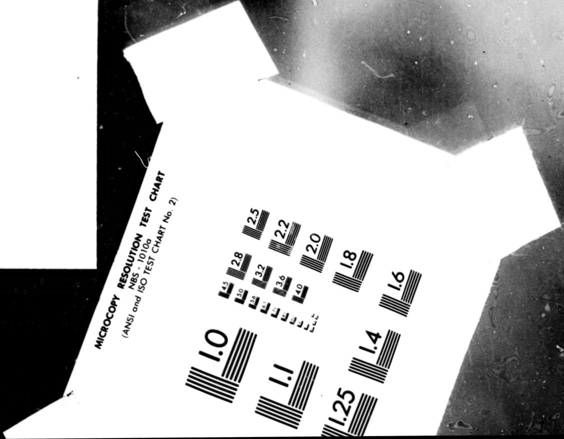
Alpin-Blanton Association
Chipley-Blanton-Swamp Association
Adamsville, var.-Chiefland-Blanton Association
Candler-Apopka Association
Jonesville-Chiefland-Archer Association
Arredondo-Gainesville Association
Hernando-Archer-Chiefland Association
Sparr-Lochloosa-Tavares Association
Adamsville-Osier Association
Bushnell-Wabasso-Felda Association
Blichton-Flemington-Kanapaha Association
Leon-Mascotte-Surrency Association
Lynne-Pomona-Pompano Association
Candler-Paola-Tavares Association
Candler-Adamsville-Pompano Association
Arredondo-Kendrick Association
Broward-Boca Association
Panasoffkee-Bushnell Association
Myakka-Basinger Association
Meggett, var.-Pompano Association
Terra Ceia-Placid Association
Arredondo-Sparr-Kendrick Association
Candler-Lake Association
Masaryk Association
Nobleton-Blichton-Flemington Association
EauGallie-Wabasso-Basinger Association
Paisley-Floridana-Wabasso Association
Okeelanta-Aripeka-Terra Ceia Association
Homosassa-Weekiwachee-Lacoochee Association
Floridana-Basinger Association
Salt Water Marsh and Swamp Association
Fresh Water Swamp and Marsh Association
Blichton-Lochloosa-Kendrick Association
Paisley-Bushnell Association
Myakka-Pomello Association

MICROFILMED FROM
BEST AVAILABLE COPY


MICROCOPY RESOLUTION TEST CHART
NBS - 1010a
(ANSI and ISO TEST CHART No. 2)
2.5
2.2
2.0
1.8
1.6
2.8
3.2
3.6
4.0
4.5
5.0
5.6
1.0
1.1
1.25
1.4